



Sniffer Pro

Installation Guide

Release 4.7



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Preface

About This Manual

Sniffer[®] Pro is a powerful network analysis tool that enables you to monitor and troubleshoot your network. This document describes the system requirements and installation procedures for Sniffer Pro. The document contains the chapters listed and described in [Table i](#).

Table i. Sniffer Pro Installation Guide Chapters

Chapter	Description
Chapter 1	Installing Sniffer Pro provides the minimum system requirements for a Sniffer Pro system, installation prerequisites, installation instructions, and lists enhanced drivers available with the Sniffer Pro installation.
Chapter 2	Installing Adapters and Enhanced Drivers provides adapter and enhanced driver installation instructions for Ethernet and FDDI topologies.
Chapter 3	Installing Madge Adapters and Enhanced Drivers provides Madge adapter and enhanced driver installation instructions for Token Ring topologies.

Other Manuals for the Sniffer Pro

[Table ii](#) lists other manuals provided by Network Associates to describe specific Sniffer Pro features.

Table ii. Additional Sniffer Pro Manuals

Manual	Contents
<i>Sniffer Pro Getting Started Guide</i>	Provides a comprehensive overview of all Sniffer Pro features.
<i>Sniffer Pro Expert Alarms Reference</i>	Describes each of the alarms generated by the Sniffer Pro's Expert analyzer, along with their related thresholds.
<i>Sniffer Wireless Installation and Operations Guide</i>	Describes how to install, configure, and operate the Sniffer Pro with a supported wireless network adapter.
<i>Switch Expert Connection and Configuration Guide</i>	Describes how to connect and configure the Sniffer Pro to use Switch Expert features.

Table ii. Additional Sniffer Pro Manuals

Manual	Contents
<i>ATM Adapters Installation, Connection, and Configuration Guide</i>	Describes how to install, connect, and configure the Sniffer Pro when using ATM hardware. Describes ATM interface pods.
<i>ATMbook Installation, Connection, and Configuration Guide</i>	Describes how to install, connect, and configure the ATMbook to capture and generate packets using Sniffer Pro.
<i>Full Duplex 10/100 Ethernet Installation and Operations Guide</i>	Describes how to install, connect, and configure the Sniffer Pro when using the Full Duplex Ethernet PCI adapter.
<i>Gigabit Ethernet Installation and Operations Guide</i>	Describes how to install, connect, and configure the Sniffer Pro when using the Gigabit Ethernet PCI adapter.
<i>WAN Adapters Installation, Connection, and Configuration Guide</i>	Describes how to install, connect, and configure the Sniffer Pro when using the LM2000 or HSSI adapter.
<i>Snifferbook Ultra Installation and Operations Guide</i>	Describes how to install and configure the Snifferbook Ultra unit and optional Phys.
<i>Snifferbook Installation and Operations Guide</i>	Describes how to install, connect, and configure the Sniffer Pro when using the Snifferbook.
<i>Using the Sniffer Analyzer WANbook</i>	Describes how to install, connect, and configure the Sniffer Pro when using the WANbook.
<i>Using the Fast Ethernet Full Duplex Pod</i>	Describes how to install, connect, and configure the Sniffer Pro when using the Fast Ethernet Full Duplex Pod.
<i>Expert Analyzer Output File Format</i>	Describes the format and contents of the CSV file exported by the Expert analyzer.

Contacting Network Associates

Customer Service

For questions, comments, or requests concerning the software or hardware you purchased, your registration status, or similar issues, contact the Network Associates Customer Service department. The department hours of operation are 8:00 AM to 8:00 PM Central time, Monday through Friday.

Table iii. Contact Information for Corporate-licensed Customers

Phone	(800) SNIFFER (800- 764-3337)
E-Mail	services_corporate_division@nai.com
Web	http://www.nai.com
Mail	Network Associates Customer Service 13465 Midway Rd. Dallas, Texas 75244 USA

Technical Support

Network Associates is dedicated to customer satisfaction. We provide answers to technical support issues on the following World Wide Web site: <http://www.support.nai.com>

If the automated web services do not have the answers you need, corporate-licensed customers can call 1-800-SNIFFER (1-800-764-3337) Monday through Friday between 8:00 AM and 8:00 PM Central time to contact Network Associates.

To provide the answers you need quickly and efficiently, the Network Associates technical support staff needs some information about your computer and software. Please have this information ready before you call:

- Sniffer product name and version number
- Computer brand and model
- Additional hardware or peripherals connected to your computer
- Operating system and version number(s)
- Network type and version, if applicable
- Contents of your AUTOEXEC.BAT, CONFIG.SYS, and system LOGIN script

- Specific steps to reproduce the problem

Getting Help with Web Site Downloads

To get help with navigating or downloading files from the Network Associates Web sites or FTP sites, call Corporate Customer Support at 1-972-308-9960.

Virus Scan Information

Sniffer Technologies scans all Sniffer Appliances and servers with McAfee Virus Scan as part of our manufacturing process. All products are shipped to customers virus-free.

Sniffer products are typically installed within the corporate infrastructure where known viruses have been eliminated, therefore there is little value in installing anti-virus software on Sniffer units. Installing such software is not supported and may adversely affect system performance.

Sniffer Technologies continues to test released software with updates and patches to Microsoft software. A list of supported versions is available through Tech Support. We encourage our customers to periodically update their units with the latest supported Microsoft patches.

Sniffer University Training

Since 1991, over 70,000 customers have completed Sniffer University training. Our customers typically are Network Administrators, Field Technicians, Network Managers, and Technical Support personnel for medium to large size companies that proactively manage and troubleshoot expanding networks.

Customers find our education to be of great value in enhancing and updating their skills as well as providing an opportunity for achieving a Sniffer-specific certification through the Sniffer Certified Professional Program (SCPP).

We provide complete course and registration information regarding Sniffer University worldwide training and certification on our World Wide Web site: <http://www.sniffer.com/education/default.asp>

International Contact Information

To contact Network Associates outside the United States, use the addresses, phone and fax numbers listed in [Table iv](#).

Table iv. International Offices

Location	Name	Address	Phone and Fax
Australia	Network Associates Australia	Level 1, 500 Pacific Highway St. Leonards, NSW Sydney, Australia 2065	Phone: 61-2-8425-4200 Fax: 61-2-9439-5166
Austria	Network Associates Austria	Pulvermuehlstrasse 17 Linz, Austria Postal Code A-4040	Phone: 43-732-757-244 Fax: 43-732-757-244-20
Belgium	Network Associates Belgique	BDC Heyzel Esplanade, boîte 43 1020 Bruxelles Belgique	Phone: 0032-2 478.10.29 Fax: 0032-2 478.66.21
Brazil	Network Associates do Brasil	Rua Geraldo Flausino Gomez 78 Cj. - 51 Brooklin Novo - São Paulo SP - 04575-060 - Brasil	Phone: (55 11) 5505 1009 Fax: (55 11) 5505 1006
Canada	Network Associates Canada	139 Main Street, Suite 201 Unionville, Ontario Canada L3R 2G6	Phone: (905) 479-4189 Fax: (905) 479-4540
China	Network Associates People's Republic of China	New Century Office Tower, Room 1557 No. 6 Southern Road Capitol Gym Beijing People's Republic of China 100044	Phone: 8610-6849-2650 Fax: 8610-6849-2069
Denmark	Network Associates Denmark	Lautruphoej 1-3 2750 Ballerup Danmark	Phone: 45 70 277 277 Fax: 45 44 209 910
Finland	NA Network Associates Oy	Mikonkatu 9, 5. krs. 00100 Helsinki Finland	Phone: 358 9 5270 70 Fax: 358 9 5270 7100

Table iv. International Offices

Location	Name	Address	Phone and Fax
France	Network Associates France S.A.	50 Rue de Londres 75008 Paris France	Phone: 33 1 44 908 737 Fax: 33 1 45 227 554
Germany	Network Associates Deutschland GmbH	Ohmstraße 1 D-85716 Unterschleißheim Deutschland	Phone: 49 (0)89/3707-0 Fax: 49 (0)89/3707-1199
Hong Kong	Network Associates Hong Kong	19th Floor, Matheson Centre 3 Matheson Way Causeway Bay Hong Kong 63225	Phone: 852-2832-9525 Fax: 852-2832-9530
Italy	Network Associates Srl	Centro Direzionale Summit Palazzo D/1 Via Brescia, 28 20063 - Cernusco sul Naviglio (MI) Italy	Phone: 39 02 92 65 01 Fax: 39 02 92 14 16 44
Japan	Network Associates Japan, Inc.	Shibuya Mark City West 20F 1-12-1 Dougenzaka, Shibuya-ku Tokyo 150-0043, Japan	Phone: 81 3 5428 1100 Fax: 81 3 5428 1480
Latin America	Network Associates Latin America	1200 S. Pine Island Road, Suite 375 Plantation, Florida 33324 United States	Phone: (954) 452-1731 Fax: (954) 236-8031
Mexico	Network Associates de Mexico	Andres Bello No. 10, 4 Piso 4th Floor Col. Polanco Mexico City, Mexico D.F. 11560	Phone: (525) 282-9180 Fax: (525) 282-9183
The Netherlands	Network Associates International B.V.	Gatwickstraat 25 1043 GL Amsterdam The Netherlands	Phone: 31 20 586 6100 Fax: 31 20 586 6101
Portugal	Network Associates Portugal	Av. da Liberdade, 114 1269-046 Lisboa Portugal	Phone: 351 1 340 4543 Fax: 351 1 340 4575

Table iv. International Offices

Location	Name	Address	Phone and Fax
South Africa	Net Tools Network Associates South Africa	Hawthorne House St. Andrews Business Park Meadowbrook Lane Bryanston, Johannesburg South Africa 2021	Phone: 27 11 700-8200 Fax: 27 11 706-1569
South East Asia	Network Associates South East Asia	78 Shenton Way #29-02 Singapore 079120	Phone: 65-222-7555 Fax: 65-220-7255
Spain	Network Associates Spain	Orense 4, 4 ^a Planta. Edificio Trieste 28020 Madrid, Spain	Phone: 34 9141 88 500 Fax: 34 9155 61 404
Sweden	Network Associates Sweden	Datavägen 3A Box 596 S-175 26 Järfälla Sweden	Phone: 46 (0) 8 580 88 400 Fax: 46 (0) 8 580 88 405
Switzerland	Network Associates AG	Baeulerwisenstrasse 3 8152 Glattbrugg Switzerland	Phone: 0041 1 808 99 66 Fax: 0041 1 808 99 77
Taiwan	Network Associates Taiwan	Suite 6, 11F, No. 188, Sec. 5 Nan King E. Rd. Taipei, Taiwan, Republic of China	Phone: 886-2-27-474-8800 Fax: 886-2-27-635-5864
United Kingdom	Network Associates International Ltd.	227 Bath Road Slough, Berkshire SL1 5PP United Kingdom	Phone: 44 (0)1753 217 500 Fax: 44 (0)1753 217 520

This chapter provides the system requirements, installation instructions, and online upgrade instructions for the Sniffer Pro software, and introduces the Sniffer supported adapters and enhanced drivers.

System Requirements

Table 1-1 lists the minimum recommended hardware and third-party software requirements to run Sniffer Pro.

Table 1-1. Sniffer Pro System Requirements

Item	Requirement
Operating System	Microsoft Windows NT 4.0 (Server & Workstation) with SP 6a and Security Rollup Package (SRP) Microsoft Windows 2000 (Professional & Advanced Server) w/ SP 2 Microsoft Windows 98 Second Edition (SE)
Computer	Pentium 400 MHz CPU (400 MHz CPU or higher recommended) 128 MB RAM Minimum System Memory 125 MB or more of free hard drive space CD-ROM Drive
Monitor	VGA color monitor with 800x600 resolution
Adapter Card	Network adapter card configured with an IP address and connected to the network (see Supported Adapters and Sniffer Enhanced Drivers on page 1-6)
Browser with Internet Access	Microsoft Internet Explorer with Microsoft Virtual Machine: <ul style="list-style-type: none">• Version 5.5 w/ SP 1 on Windows NT, 2000, and 98 SE• Version 6.0 on Windows NT, 2000, and 98 SE Media Player: <ul style="list-style-type: none">• Version 6.4.07.1112 on Windows NT• Version 7.00.00.1954 on Windows 2000 and 98 SE

Uninstalling Previous Versions of Sniffer Pro

If there is a previous version of Sniffer Pro installed on the Sniffer PC, you must remove it before installing the Sniffer Pro 4.7. Use the following procedure to uninstall a previous version of Sniffer Pro.

To uninstall a previous version of Sniffer Pro:

1. Log in to the Sniffer PC machine with Administrator privileges.
2. Go to Start > Settings > Control Panel.
3. In the window that appears, use the Add/Remove Programs control panel to remove the Sniffer Pro software.
4. During the uninstallation, the wizard will ask you if you would like to remove unused shared files. Click **Yes to all** to remove all unused shared files.
5. Reboot the computer.

The Sniffer Pro machine is now ready for installation of the Sniffer Pro software.

Unpacking Sniffer Pro

Ensure that you have received the following items:

- Sniffer Pro 4.7 CD
- Sniffer Pro 4.7 Release Notes (included on CD)
- Sniffer Pro *Installation Guide* (this document)
- Sniffer Pro *Getting Started Guide*
- Packing list
- License agreements

NOTE: Please consult the packing list for additional items relevant to your configuration requirements or purchase.

If any items are missing or damaged, notify your reseller or Network Associates immediately.

Before Installing Sniffer Pro

The Sniffer Pro CD includes the software you need to get started using Sniffer Pro. For a quick, successful Sniffer Pro installation, have the following information ready:

- Your name and business title
- Company or organization name
- Email address
- Company address (includes city, state, country, and postal code)
- Phone and FAX numbers
- Product serial number

Before you install Sniffer Pro, review the following installation notes:

- **For Windows NT:** To install the Sniffer Pro software on a Windows NT system, you must have system administrator (sa) privileges.
- **For Windows 98 SE:** If you are installing the Sniffer Pro on Windows 98 SE, you are asked if you would like to make the Sniffer enhanced drivers available in Windows. If you select **Yes**, do **not** reboot your system when prompted at the end of the installation process and follow the steps on [page 2-10](#) to complete the driver installation.
- **For IBM Thinkpad laptop users:** Sniffer Pro supports the Intel (R) PRO + miniPCI Adapter card. Before you install Sniffer Pro, we recommend updating the latest BIOS for your laptop, then downloading and installing the latest Intel driver to minimize Sniffer Pro installation issues. With the Intel (R) PRO + miniPCI Adapter card, no additional Sniffer enhanced driver is necessary.

Installing Sniffer Pro

To install the Sniffer Pro:

1. Insert the Sniffer Pro CD in the CD-ROM drive.
2. Go to Start > Run.
3. Enter `<drive letter>\setup` and click **OK**.
`<drive letter>` is the physical drive letter of the CD-ROM drive.
4. Follow the on-screen instructions until the Sniffer Pro software is installed successfully.

NOTE: You must enter valid license key information during installation to install and run Sniffer Pro software successfully. In the Sniffer Pro User Registration dialog box, the **Sniffer Serial Number** field is case-sensitive. Enter the serial number in uppercase letters, separated by a hyphen. For example: AB123-456CD-EFG78-9HIJK

Registering Sniffer Pro

You can register Sniffer Pro in two ways:

- **Internet.** Use the Internet registration option during the installation procedure.
- **Fax.** Print and fax the registration form to Sniffer.

Installing Microsoft Tools

Microsoft Internet Explorer and Microsoft Virtual Machine are required to run Sniffer Pro. To use the Sniffer Pro dashboard and capture panel, you must install Microsoft Virtual Machine. You can install the latest version from www.microsoft.com/windows/ie.

Downloading Sniffer Pro Upgrades from the Web

After installing Sniffer Pro from the Product CD, you can download available upgrades from the Web. Before downloading upgrades, you need your product Grant number and any applicable serial numbers or valid license key information.

IMPORTANT: After downloading an upgrade, you must reinstall the Sniffer enhanced driver.

If you elect to download upgrades from the web and your system does not have sufficient disk space available, you will not be able to complete the upgrade. An error message appears, stating that the executable you are attempting to run is corrupted. However, this error message is caused by insufficient space on the hard drive, not a corrupted file. See [System Requirements on page 1-1](#).

To download upgrades from the Web:

1. Got to <http://www.sniffer.com/naicommon/download/upgrade/login.asp>.

or

Go to www.sniffer.com and click **Upgrades** (located on the right side of the page).

2. In the Licensed User Product Upgrade box, enter your Grant number.
3. Follow the on-screen instructions to complete and submit the requested form.

You will be given access to the secure upgrade site and further instructions to continue the online upgrade process.

Supported Adapters and Sniffer Enhanced Drivers

The Sniffer Pro CD includes Sniffer enhanced drivers for supported network adapter cards. Enhanced drivers modify the adapter to provide additional functionality to the card. For example, an enhanced driver may enable you to view additional network data or improve Sniffer Pro performance by capturing and decoding more traffic on busy networks. Later chapters detail how to install the Sniffer enhanced drivers listed in [Table 1–2](#).

Sniffer Pro works on a desktop PC with any Ethernet or Token Ring network adapter with an NDIS 3.0+ driver. Sniffer Pro works on a laptop computer with the Xircom CardBus Ethernet II 10/100 or Madge 16/4 Token Ring CardBus (Mk2) with an NDIS 5.0+ driver. However, you must use a supported adapter with a Sniffer enhanced driver to fully utilize all the features of Sniffer Pro.

NOTE: The Intel (R) PRO + miniPCI Adapter card is supported, but an additional Sniffer enhanced driver is not necessary.

Table 1–2. Supported Adapters With Sniffer Enhanced Drivers

Topology	Network Adapter Cards with Sniffer Enhanced Drivers	NT	2000	98 SE
Ethernet	Sniffer (Adaptec) PCI Ethernet Adapter (ANA-21140/UC & ANA-6911/UC)	X	X	X
	Sniffer (Adaptec) PCI Ethernet Adapter (ANA-6911A/TX/TXC)	X	X	X
	Sniffer (Xircom) CardBus Ethernet II 10/100 (CBE2)	X	X	X
	Sniffer (Xircom) Realport CardBus Ethernet Adapter	X	X	X
	Sniffer (Xircom) Realport2 CardBus Ethernet Adapter	X	X	X
	Sniffer (IBM) 10/100 EtherJet CardBus Adapter	X	X	X
Token Ring	Sniffer (Madge) PCMCIA Smart 16/4 Ringnode Mk2 (20-01)	X	X	X
	Sniffer (Madge) 16/4 CardBus Adapter Mk2 (20-03)	X	X	X
	Sniffer (Madge) Smart 16/4 PCI Ringnode Mk2/BM2 (51-02)	X	X	X
	Sniffer (Madge) Smart 16/4 PCI Ringnode Mk3 (51-04)	X	X	X
FDDI	Sniffer (NuCard) PCI FDDI Adapter	X		

Additional Enhanced Driver Installation Resources

[Table 1–3](#) contains a list of supported adapters and enhanced drivers that are not documented in this guide. Please see the document listed below for detailed information and installation instructions for that adapter and enhanced driver.

Table 1–3. Additional Supported Adapters and Enhanced Drivers

Network Adapter Cards with Sniffer Enhanced Drivers	Installation and Configuration Information
Sniffer Symbol Spectrum 24 PCMCIA Sniffer Cisco Aironet 340/350 PCMCIA Sniffer Lucent Orinoco Gold PCMCIA Enterasys RoamAbout PCMCIA	See the <i>Sniffer Wireless: Installation and Operations Guide</i> .
Sniffer FDX PCI Card	See the <i>Sniffer Pro: Full Duplex Ethernet Installation and Operations Guide</i> .
Sniffer HSSI PCI Adapter Sniffer LM2000 ISA Adapter	See the <i>Sniffer Pro: WAN Adapter Cards Installation, Connection, and Configuration Guide</i> .
Sniffer ATM SAR Adapter	See the <i>Sniffer Pro: ATM Adapter Card Installation, Connection, and Configuration Guide</i> .
Sniffer (Xyratex) Gigabit Ethernet PCI Adapter (SX, LX)	See the <i>Sniffer Pro: Gigabit Ethernet Installation and Operations Guide</i> .

Installing Adapters and Sniffer Enhanced Drivers

2

After installing the Sniffer Pro software, install the adapter and Sniffer enhanced driver appropriate to your Sniffer Pro configuration. This chapter provides detailed installation instructions for the Sniffer enhanced drivers and adapters on Ethernet and FDDI topologies.

NOTE: Unless otherwise noted, the instructions support Notebook PC, PAC 65, and Sniffer FlexPAC platforms.

Use [Table 2-1](#) to quickly find the adapter and Sniffer enhanced driver installation instructions you need for your Sniffer Pro PC configuration.

Table 2-1. Finding What You Need in this Chapter

To perform the following...	for...	see...
Install Sniffer supported adapters and enhanced drivers for Ethernet topologies	Windows NT	page 2-1
	Windows 2000	page 2-5
	Windows 98 SE	page 2-10
Install Sniffer supported adapters and enhanced drivers for FDDI topologies	Windows NT	page 2-1

Installing Adapters and Sniffer Enhanced Drivers on Windows NT

The Sniffer enhanced drivers for Windows NT are **not** plug and play and must be manually installed. If you have a previously installed driver, you must first uninstall the driver before installing the Sniffer enhanced driver.

The Sniffer enhanced drivers are placed in the *<local install drive>:\Program Files \Nai\SnifferNT\Driver* directory during the Sniffer Pro installation. [Table 2-2](#) lists the supported adapters for Windows NT and the subdirectories where the Sniffer enhanced drivers can be found.

Table 2–2. Windows NT Sniffer Enhanced Driver Locations

Supported Adapter	<local install drive>: Program Files\Nai SnifferNT\Driver\...
Sniffer (Adaptec) PCI Ethernet Adapter (ANA-21140/UC & ANA-6911/UC) Sniffer (Adaptec) PCI Ethernet Adapter (ANA-6911A/TX/TXC)	<i>adaptec\WinNT</i>
Sniffer (Xircom)	<i>Xircom\WinNT</i>
Sniffer (IBM)	<i>Ibm\WinNT</i>
Sniffer (NuCard) FDDI	<i>fddi\WinNT</i>

To install adapters and Sniffer enhanced drivers on Windows NT:

1. Ensure Sniffer Pro software is installed. If it is not installed, install it now. See *Installing Sniffer Pro* on [page 1-4](#).
2. If you have a previously installed driver (a previous version of a Sniffer driver or another vendor's driver), you must first uninstall the driver before installing the Sniffer enhanced driver. Remove drivers in Windows NT through the Adapters tab of the Network control panel.
3. Shut down the computer.
4. Following the manufacturer's instructions, insert the supported adapter into an available slot in your computer.
5. Start the computer and log in to Windows NT as an Administrator.
6. Go to Start > Settings > Control Panel, and double-click **Network**.
7. Click the **Adapters** tab.
8. Click **Add**.
9. In the **Select Network Adapter** dialog box, click **Have Disk**.
10. In the **Insert Disk** dialog box, enter the directory path where the Sniffer enhanced driver is located. See [Table 2–2](#) for Sniffer enhanced driver locations.

For example, enter C:\Program Files\Nai\SnifferNT\Driver\Xircom\WinNT for a Xircom Sniffer enhanced driver.
11. Click **OK**.

12. Select the appropriate adapter in the **Select OEM Option** dialog box (Adaptec example shown in [Figure 2-1](#)) and click **OK**.

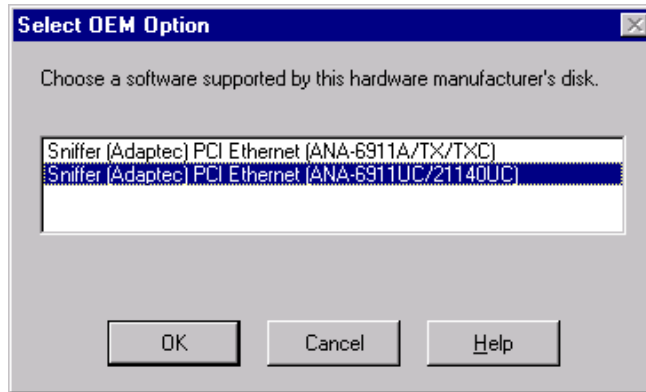


Figure 2-1. Select OEM Option (Adaptec Example)

13. A Configuration dialog box with the adapter name in the title bar appears. An Adaptec example is provided in [Figure 2-2](#), a FDDI example is provided in [Figure 2-3](#).

Do **not** change the default setup specific to your installed adapter. Click **OK**.



Figure 2-2. Adapter Configuration Properties (Adaptec Example)

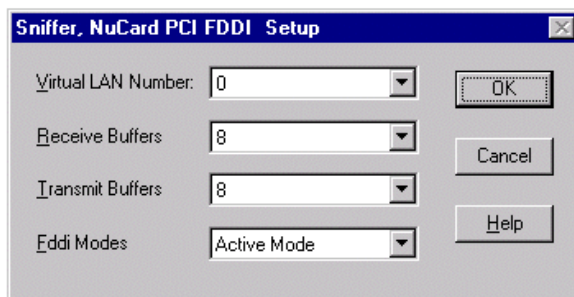


Figure 2–3. Adapter Configuration Properties (FDDI Example)

14. Click the **Bindings** tab to initialize the adapter.
15. Click the **Protocols** tab, select TCP/IP Protocol, then click **Properties**.
The Microsoft TCP/IP Properties dialog box opens ([Figure 2–4](#)).

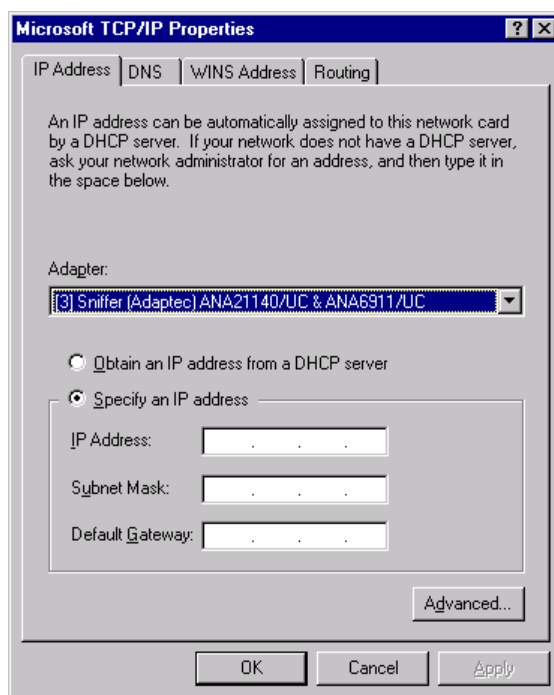


Figure 2–4. Microsoft TCP/IP Properties Dialog Box (Adaptec Example)

16. In the Microsoft TCP/IP Properties dialog box, ensure the correct adapter name is highlighted in the Adapter field.
17. Select one of the following IP address settings for the adapter:
 - **Obtain an IP address from a DHCP server.** Reads and assigns the IP address for the driver automatically.
 - **Specify an IP address.** You must manually enter IP address information for the driver in each field.
18. Click **OK**.
19. Click **Close**.
20. If an application error occurs in rundll32.exe, click **Cancel** in the error message box. All added or modified settings will be saved.
21. Restart your computer.

Installing Adapters and Sniffer Enhanced Drivers on Windows 2000

The Sniffer enhanced drivers for Windows 2000 are plug and play drivers. The Sniffer enhanced drivers are placed in the *<local install drive>:\Program Files\Nai\SnifferNT\Driver* directory during the Sniffer Pro installation. [Table 2–3](#) lists the supported adapters for Windows 2000 and the subdirectories where the Sniffer enhanced drivers can be found.

Table 2–3. Windows 2000 Sniffer Enhanced Driver Locations

Supported Adapter	<i><local install drive>: Program Files\Nai SnifferNT\Driver\...</i>
Sniffer (Adaptec) PCI Ethernet Adapter (ANA-21140/UC & ANA-6911/UC)	<i>adaptec\Win2K</i>
Sniffer (Adaptec) PCI Ethernet Adapter (ANA-6911A/TX/TXC)	
Sniffer (Xircom)	<i>Xircom\Win2K</i>
Sniffer (IBM)	<i>ibm\Win2K</i>

To install adapters and Sniffer enhanced drivers on Windows 2000:

1. Ensure Sniffer Pro software is installed. If it is not installed, install it now. See [Installing Sniffer Pro](#) on [page 1-4](#).
2. Shut down the computer.
3. Is this the first time you are installing an adapter?
 - a. If yes:
 1. Insert the supported adapter into an available slot in your computer following the manufacturer's instructions.
 2. Start the computer and log in as an Administrator.
 - b. If no:
 1. Ensure a supported adapter is installed in the target machine.
 2. Start the computer and log in as an Administrator.
 3. Go to **Control Panel > System > Hardware > Device Manager > Network Adapters** and double-click the adapter entry.

NOTE: Double-click Sniffer (Adaptec) PCI Fast Ethernet (ANA-6911/UC) adapter for DEC 21140 chips or Sniffer (Adaptec) PCI Fast Ethernet (ANA-6911ATXC/ATX) adapter for DEC 21143 chips.

4. In the Adapter Properties dialog box, click the **Driver** tab.
5. Click the **Update Driver** button.

In either case, what happens next is the same. Windows 2000 will open a Wizard to help you install a Sniffer enhanced driver for the supported adapter.

4. Click **Next** in the Welcome dialog box.
5. In the Install Hardware Device Drivers dialog box ([Figure 2-5](#)), select **“Display a list of known drivers for this device so that I can choose a specific driver”** and click **Next**.



Figure 2–5. Install Hardware Device Drivers (Adaptec Example)

6. In the Select Network Adapter dialog box ([Figure 2–6](#)), select the appropriate adapter and click **Have Disk**.

NOTE: If you installed Sniffer (Adaptec) adapters, select Sniffer (Adaptec) PCI Fast Ethernet (ANA-6911/UC) for DEC 21140 chips or Sniffer (Adaptec) PCI Fast Ethernet (ANA-6911ATXC/ATX) for DEC 21143 chips.

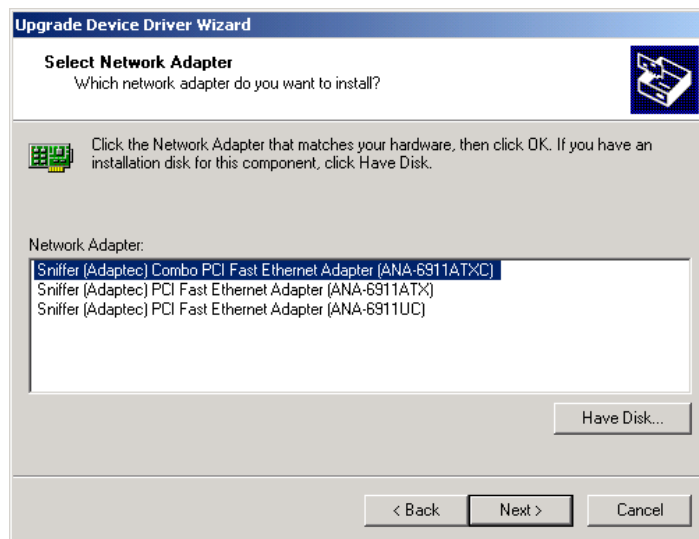


Figure 2–6. Select Network Adapter Dialog Box (Adaptec Example)

7. In the Install From Disk dialog box, browse to the location of the Sniffer enhanced driver. See [Table 2–3](#) for Sniffer enhanced driver locations.

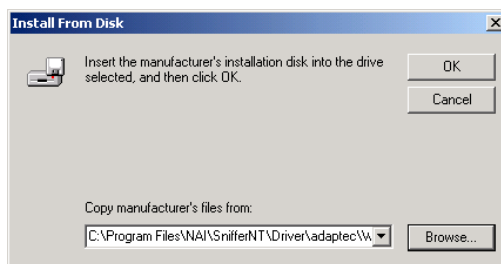


Figure 2–7. Install From Disk Dialog Box (Adaptec Example)

8. Click **OK**.

9. In the Start Device Driver Installation dialog box, click **Next**.

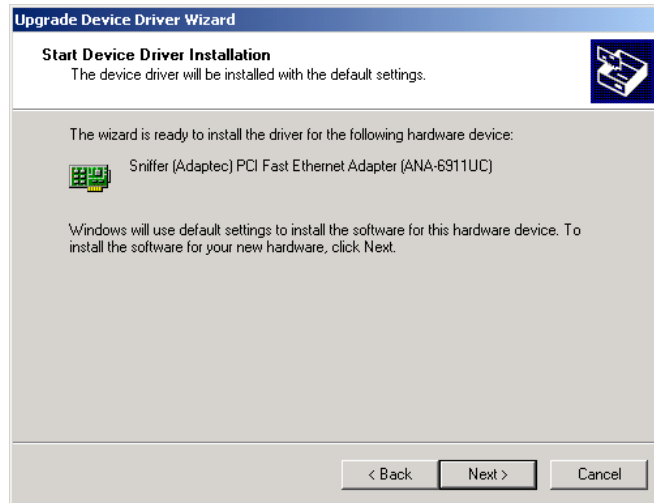


Figure 2–8. Start Device Driver Installation (Adaptec Example)

10. At the message “Digital Signature Not Found,” click **Yes** to successfully continue the Sniffer enhanced driver update.
11. Click **Finish**.
12. Restart the computer.

Notes on Previous Driver Installations on Windows 2000

For backup purposes, if you had previously installed drivers, your original drivers are copied into the *<local install directory>:\Program Files\Nai\Sniffer\Driver\<Vendor name> \Win2K* directory.

Installing Adapters and Sniffer Enhanced Drivers on Windows 98 SE

The Sniffer enhanced drivers for Windows 98 SE are plug and play drivers. The Sniffer enhanced drivers are placed in the *<local install drive>:\ProgramFiles\ Nai\Sniffer\Driver* directory during the Sniffer Pro installation. [Table 2–4](#) lists the supported adapters for Windows 98 SE and the subdirectories where the Sniffer enhanced drivers can be found.

Table 2–4. Windows 98 SE Sniffer Enhanced Driver Locations

Supported Adapter	<i><local install drive>: Program Files\Nai Sniffer\Driver\...</i>
(Sniffer (Adaptec) PCI Ethernet Adapter (ANA-21140/UC & ANA-6911/UC) Sniffer (Adaptec) PCI Ethernet Adapter (ANA-6911A/TX/TXC)	<i>adaptec\Win9x</i>
Sniffer (Xircom)	<i>Xircom\Win9x</i>
Sniffer (IBM)	<i>lbn\Win9x</i>

To install adapters and Sniffer enhanced drivers on Windows 98 SE:

1. Ensure Sniffer Pro software is installed. If it is not installed, install it now. See [Installing Sniffer Pro](#) on [page 1-4](#).
2. Shut down the computer.
3. Following the manufacturer’s instructions, insert the supported adapter into an available slot in your computer.
4. Start the computer and log in as an Administrator.

Windows 98 SE automatically detects the new hardware and opens a Wizard. The Wizard helps you find a device driver for the hardware.
5. Complete the steps in the Wizard to load the adapter and Sniffer enhanced driver.
6. If prompted, restart the computer.

Notes on Previous Adapter and Driver Installations on Windows 98 SE

- If you have a previously installed adapter on Windows 98 SE, when your computer restarts, Windows 98 SE automatically detects your adapter and starts a Wizard to install the Sniffer enhanced drivers.

If Windows 98 SE does not detect the adapter, you can add the adapters through the **Start > Settings > Control Panel > Network** menu. The Sniffer enhanced drivers will be displayed in the adapter list.

- If you have a previously installed driver, perform the following:
 1. Go to Start > Settings > Control Panel and double-click **Network**.
 2. From the list box at the top of the **Configuration** tab, select any Sniffer supported adapter and click **Remove**.
 3. Select **OK** and close the Network dialog box.
 4. Restart your computer.
 5. When your computer restarts, Windows 98 SE automatically detects your adapter and starts a Wizard to install the Sniffer enhanced drivers.

NOTE: For backup purposes, your original drivers are copied into the <local install directory>:\Program Files\Nai\Sniffer\Driver\<Vendor name>\Win9x directory.

Installing Madge Adapters and Enhanced Drivers

3

After installing the Sniffer Pro software, install the adapter and enhanced driver appropriate to your Sniffer Pro configuration. This chapter provides detailed installation instructions for Madge adapters and Sniffer enhanced drivers.

Use [Table 3-1](#) to quickly find the adapter and enhanced driver installation instructions you need for your Sniffer Pro PC configuration.

Table 3-1. Finding What You Need in this Chapter

To perform the following...	for...	see...
Install Madge adapters and enhanced drivers	Windows NT	page 3-2
	Windows 2000	page 3-5
	Windows 98 SE	page 3-6
Install Madge PCI adapters and enhanced drivers	Windows NT	page 3-9
	Windows 2000	page 3-5
	Windows 98 SE	page 3-6
Installing Madge PCMIA and Cardbus adapters and enhanced drivers	Windows NT	page 3-10
	Windows 2000	page 3-5
	Windows 98 SE	page 3-6

Installing Madge Adapters and Enhanced Drivers

The instructions provided in this section detail installing supported Madge adapters and enhanced drivers for PII, PIII and FlexPAC systems.

Windows NT

The Madge adapters and the Sniffer enhanced drivers for Windows NT are **not** plug and play and must be manually installed. The Madge enhanced drivers are placed in the <local install drive>: \Program Files\Nai\SnifferNT\Driver\TRMadge directory during the Sniffer Pro installation.

NOTE: See [Installing Madge PCI Adapters and Enhanced Drivers on page 3-9](#) for instructions on installing Madge PCI adapters and enhanced drivers on Windows NT, and [Installing Madge PCMIA and Cardbus Adapters and Enhanced Drivers on page 3-10](#) for instructions on installing Madge PCMIA and CardBus adapters and enhanced drivers on Windows NT.

To install Madge ISA adapters and enhanced drivers on Windows NT:

1. Ensure Sniffer Pro software is installed. If it is not installed, install it now. See [Installing Sniffer Pro on page 1-4](#).
2. If you have a previously installed driver (a previous version of a Sniffer driver or another vendor's driver), you must first uninstall the driver before installing the Sniffer enhanced driver. Remove drivers in Windows NT through the Adapters tab of the Network control panel.
3. Shut down the computer.
4. Following the manufacturer's instructions, insert the supported adapter into an available slot in your computer.
5. Start the computer and log in to Windows NT as an Administrator.
6. Go to Start > Programs > Administrative Tools (Common) > Windows NT Diagnostics.
7. In the Windows NT Diagnostics dialog box, click the **Resources** tab. The interrupt numbers currently in use on the computer are listed.
8. Choose an available IRQ and record the number for later use.
9. Click **I/O Port** in the Windows NT Diagnostics dialog. The I/O addresses currently in use on the computer are listed.

NOTE: The Madge ISA card only supports the following I/O locations: 0A20, 1A20, 2A20, and 3A20.

10. Choose an available I/O address from the supported list in [Step 9](#) and record the number for later use.
11. Click **OK** to exit the Windows NT Diagnostics dialog.
12. Next run the Token Ring configuration program from DOS to configure the hardware settings on the Madge ISA adapter card. The configuration program is installed when you install the Sniffer Pro software.
13. Insert a DOS boot disk in the floppy drive. Sniffer does not supply a DOS boot disk.
14. Navigate to the following directory:
`<local install drive>:\Program Files\Nai\SnifferNT\Driver\TRMadge`
15. Type `trcfg` at the prompt to run the `trcfg.exe` program.
16. Press F4 to start the Token Ring configuration program.
17. Select the **Madge Smart 16/4 AT Plus Ringnode** adapter and press Enter.
18. Change the Token Ring configuration options to the recommended settings listed in [Table 3–2](#). Press Tab to select a field, then press Enter to see a list of possible values, and then press F4.

Table 3–2. Token Ring Configuration Options

Option	Recommended Setting
Transfers	16bit PIO
IO Port	The address recorded in Step 9 .
Ring Speed	4 or 16 depending on your network.
Interrupt	The number recorded in Step 7 .
Smartrom	Disabled

19. When prompted to update the card configuration, press F4 (yes), and press F4 again to exit the program.
20. Eject the DOS boot disk and restart the computer.
21. To complete the enhanced driver installation, turn to the enhanced driver installation instructions on [page 2-1](#) and continue the procedure starting at [Step 6](#).

Notes on Previous Adapter Installations on Windows NT

If you have a Madge adapter card installed and working with a non-Sniffer driver, you should install the Sniffer enhanced driver. The instructions provided in this section detail installing enhanced drivers for pre-existing or pre-installed Madge adapters on your Sniffer PC.

To install enhanced drivers for existing Madge adapters on Windows NT:

1. Ensure Sniffer Pro software is installed. If it is not installed, install it now. See *Installing Sniffer Pro* on [page 1-4](#).
2. If you have a previously installed driver, you must first uninstall the driver before installing the Sniffer enhanced driver. Remove drivers in Windows NT through the Adapters tab of the Network control panel.
3. Go to Start > Settings > Control Panel, and double-click **Network**.
4. Click the **Adapters** tab, select the Madge adapter, then click **Properties**.
5. Record the I/O, IRQ, transfer method, and then click **Cancel**.
6. Click the **Adapters** tab, select the Madge adapter, and then click **Remove**.
7. Click **Add**.
8. In the Select Network Adapter dialog, click **Have Disk**.
9. In the Insert Disk dialog box, specify the directory (including complete path) where the enhanced driver is located. The default location is shown below:

 <local install drive>:\Program Files\Nai\SnifferNT\Driver\TRMadge\WinNt
10. Select **Network Associates Smart 16/4 AT Plus Ringnode**, then click **OK**.
11. In the Configuration dialog box, change the settings to match the configuration settings recorded in [Step 5](#).
12. At this time, you can set any network related settings (for example, TCP/IP settings). When set, click **OK** to close the Network dialog box.
13. If an application error occurs in rundll32.exe, click **Cancel** in the error message box. All added or modified settings will be saved.
14. Restart the computer.

Windows 2000

The Madge enhanced drivers are placed in the <local install drive>:
 \Program Files\Nai\SnifferNT\Driver\TRMadge directory during the
 Sniffer Pro installation.

To install Madge adapters and enhanced drivers on Windows 2000:

1. Ensure Sniffer Pro software is installed. If it is not installed, install it now. See [Installing Sniffer Pro](#) on [page 1-4](#).
2. Shut down the computer.
3. Is this the first time you are installing an adapter?
 - a. If yes:
 1. Insert the supported adapter into an available slot in your computer following the manufacturer's instructions.
 2. Start the computer and log in as an Administrator.
 - b. If no:
 1. Ensure a supported adapter is installed in the target machine.
 2. Start the computer and log in as an Administrator.
 3. Go to **Control Panel > System > Hardware > Device Manager > Network Adapters** and double-click the adapter entry.
 4. In the Adapter Properties dialog box, click the **Driver** tab.
 5. Click the **Update Driver** button.

In either case, what happens next is the same. Windows 2000 will open a Wizard to help you install a Sniffer enhanced driver for the supported adapter.

4. Click **Next** in the Welcome dialog box.
5. Select “**Display a list of known drivers for this device so that I can choose a specific driver.**”
6. Click **Next**.
7. In the Upgrade Device Driver wizard, click **Have Disk**.
8. In the Install From Disk dialog box, browse to <local install drive>:\Program Files\Nai\SnifferNT\Driver\TRMadge\Win2K directory.
9. Click **OK**.
10. In the Upgrade Device Driver wizard, select the installed Madge adapter.
11. Click **Next**.

12. In the dialog box that appears, click **Next**.
13. At the message "Digital Signature Not Found," click **Yes** to successfully continue the driver update.
14. Click **Finish**.
15. Restart the computer.

Windows 98 SE

For Windows 98 SE, the Madge adapter is **not** plug and play. The following sections describe how to install the Madge adapter and the Sniffer enhanced driver. The enhanced drivers are placed in the *<local install drive>:\Program Files\Nai\Sniffer\Driver\TRMadge* directory during the Sniffer Pro installation.

To install Madge adapters and enhanced drivers on Windows 98 SE:

1. Ensure Sniffer Pro software is installed. If it is not installed, install it now. See *Installing Sniffer Pro* on [page 1-4](#).
2. Shut down the computer.
3. Following the manufacturer's instructions, insert the Madge adapter card into an available slot in your computer.
4. Start the computer.
5. Go to Start > Settings > Control Panel, and double-click **System**.
6. Click the **Device Manager** tab and highlight the **Computer** entry.
7. Click **Properties**.
8. In the **Computer Properties** dialog box, select an available IRQ and record the number for later use.
9. Click **Input/output (I/O)** at the top of the Computer Properties dialog box. The I/O addresses currently in use on the computer are listed.

NOTE: The Madge ISA card only supports the following I/O locations: 0A20, 1A20, 2A20, and 3A20.

10. Choose an available I/O address and record the number for later use.
11. Exit the System Properties dialog box.
12. Next run the Token Ring configuration program from DOS to configure the hardware settings on the Madge adapter card. The configuration program is installed when you install the Sniffer Pro software.

13. Go to Start > Shut Down, select **Restart the computer in MS-DOS mode**, and click **Yes**.
14. At the DOS prompt, navigate to the following directory:
 <local install drive>:\Program Files\Nai\Sniffer\Driver\trmadge
15. Run the trcfg.exe program by typing trcfg at the prompt.
16. Press F4 to start the Token Ring configuration program.
17. Select the **Madge Smart 16/4 AT Plus Ringnode** adapter and press Enter.
18. Change the Token Ring configuration options to the recommended settings listed in [Table 3–3](#).
19. Press Tab to select the field, press Enter to see a list of possible values, and then press F4.

Table 3–3. Token Ring Configuration Options

Option	Setting
Transfers	16bit PIO
IO Port	The address recorded in Step 7 .
Ring Speed	4 or 16 depending on your network.
Interrupt	The number recorded in Step 9 .
Smartrom	Disabled

20. When prompted to update the card configuration, press F4 (yes), then press F4 again to exit the program.
21. Go to Start > Settings > Control Panel, and double-click **Network**.
22. Click the Configuration tab.
23. From the list box at the top, select all Sniffer supported adapters that are not using Sniffer enhanced drivers and click **Remove**.
24. Click **Add**.
25. Select **Adapter**, then click **Add**.
26. In the **Manufacturers** list box, select **Network Associates, Inc.**
27. In the **Network Adapters** list box, select **Network Associates Smart 16/4 AT Plus Ringnode**, then click **OK**. A configuration menu will appear.
28. Change the hardware settings to match the settings recorded in [Step 7](#) and [Step 10](#), and click **OK**.

29. At this time, you can set any network related settings (for example, TCP/IP settings).
30. Select **OK** to close the Network dialog box.
31. Restart the computer.

Notes on Previous Adapter Installations on Windows 98 SE

If you have a Madge adapter card already installed, perform the following.

To install enhanced drivers for existing Madge adapters on Windows NT:

1. Go to Start > Settings > Control Panel, and select **Network**.
2. Select the **Madge adapter card** and click **Properties**.
3. Click the **Resources** tab and record the hardware settings for this adapter for later use.
4. Click **Cancel**, then click the **Configuration** tab.
5. From the list box at the top of the **Configuration** tab, select the **Madge adapter card** and click **Remove**.
6. Click **Add**.
7. Select **Adapter**, then click **Add**.
8. In the **Manufacturers** list box, select **Network Associates, Inc.**
9. In the **Network Adapters** list box, select **Network Associates Smart 16/4 AT Plus Ringnode**, then click **OK**.
10. In the **Configuration** tab of the Network dialog box, select **Network Associates Smart 16/4 AT Plus Ringnode**, then click **Properties**.
11. Change the hardware settings to match the setting recorded in [Step 3](#), then click **OK**.
12. At this time, you can set any network related settings (for example, TCP/IP settings).
13. Click **OK** to close the Network dialog box.
14. Restart the computer.

Installing Madge PCI Adapters and Enhanced Drivers

The instructions provided in this section detail installing supported Madge PCI adapters and enhanced drivers for PII, PIII and FlexPAC systems running Windows NT.

NOTE: For Windows 2000 and Windows 98 SE, the instructions for installing the Madge PCI adapter and enhanced driver are the same as the instructions for [Installing Madge Adapters and Enhanced Drivers](#) for [Windows 2000 on page 3-5](#) and [Windows 98 SE on page 3-6](#).

To install Madge PCI adapters and enhanced drivers on Windows NT:

1. Ensure Sniffer Pro software is installed. If it is not installed, install it now. See [Installing Sniffer Pro](#) on [page 1-4](#).
2. If you have a previously installed driver (a previous version of a Sniffer driver or another vendor's driver), you must first uninstall the driver before installing the Sniffer enhanced driver. Remove drivers in Windows NT through the Adapters tab of the Network control panel.
3. Shut down the computer.
4. Following the manufacturer's instructions, insert the Madge PCI adapter card into an available slot in your computer.
5. Start the computer.
6. Go to Start > Settings > Control Panel.
7. Double-click the **Network** icon, then click the **Adapters** tab.
8. Click **Add**.
9. In the **Select Network Adapter** dialog box, click **Have Disk**.
10. In the **Insert Disk** dialog box specify the complete path for the Madge PCI Adapter enhanced driver.
11. Click **OK**.
12. In the **Select OEM Option** dialog box select **Sniffer (Madge) Automated Installation - RECOMMENDED** and click **OK**.
The Network dialog box appears with the Madge PCI adapter installed.
13. In the **Network** dialog box, click **Close** to perform the bindings.
The TCP/IP Setup dialog box appears.

14. In the Adapter drop down list, select the installed adapter.
15. Enter the IP Address and Subnet Mask, and click **OK**.
16. Restart the computer.

Installing Madge PCMIA and Cardbus Adapters and Enhanced Drivers

The instructions provided in this section detail installing supported Madge PCMIA and Cardbus adapters and enhanced drivers for Windows NT laptop systems.

NOTE: For Windows 2000 and Windows 98 SE, the instructions for installing the Madge PCMIA and Cardbus adapter and enhanced driver are the same as the instructions for [Installing Madge Adapters and Enhanced Drivers](#) for [Windows 2000 on page 3-5](#) and [Windows 98 SE on page 3-6](#).

To install Madge PCMIA and Cardbus adapters and enhanced drivers on Windows NT:

1. Ensure Sniffer Pro software is installed. If it is not installed, install it now. See [Installing Sniffer Pro](#) on [page 1-4](#).
2. If you have a previously installed driver (a previous version of a Sniffer driver or another vendor's driver), you must first uninstall the driver before installing the Sniffer enhanced driver. Remove drivers in Windows NT through the Adapters tab of the Network control panel.
3. Shut down the computer.
4. Following the manufacturer's instructions, insert the Madge PCMIA or Cardbus adapter card into an available slot in your computer.
5. Start the computer.
6. Go to Start > Settings > Control Panel.
7. Double-click the **Network** icon, then click the **Adapters** tab.
8. Click **Add**.
9. In the **Select Network Adapter** dialog box, click **Have Disk**.
10. In the **Insert Disk** dialog box specify the complete path for the Madge PCMIA or Cardbus adapter enhanced driver.
11. Click **OK**.
12. In the **Select OEM Option** dialog box, select **Sniffer (Madge) PCMIA/Cardbus Adapter MK2** and click **OK**.

13. In the **Setup Message** dialog box, click **OK**.

The Network dialog box appears with the Madge PCMIA or Cardbus adapter installed.

14. In the **Network** dialog box, click **Close** to perform the bindings.

The TCP/IP Setup dialog box appears.

15. In the Adapter drop down list, select the installed adapter.

16. Enter the IP Address and Subnet Mask, and click **OK**.

17. Restart the computer.

Adding Value To Your Network Associates Product

Sniffer Technologies network management software helps to ensure that the critical technology you rely on functions smoothly and effectively. Taking advantage of a Network Associates support plan extends the protection you get from your software by giving you access to the expertise you need to install, monitor, maintain and upgrade your system with the latest Network Associates technology. With a support plan tailored to your needs, you can keep your system or your network working dependably in your computing environment for months or years to come.

Corporate customers can choose from four levels of extended support under the Network Associates Corporate PrimeSupport program.

PrimeSupport Options for Corporate Customers

The Corporate PrimeSupport program offers these four support plans:

- PrimeSupport KnowledgeCenter Plan
- PrimeSupport Connect Plan
- PrimeSupport Priority Plan
- PrimeSupport Enterprise Plan

Each plan has a range of features that provide you with cost-effective and timely support geared to meet your needs. The following sections describe each plan in detail.

The PrimeSupport KnowledgeCenter Plan

The PrimeSupport KnowledgeCenter Plan gives you access to an extensive array of technical support information via a Network Associates online knowledge base, and download access to product upgrades from the Network Associates website. If you purchased your Network Associates product with a subscription license, you receive the PrimeSupport KnowledgeCenter Plan as part of the package, for the length of your subscription term.

If you purchased a perpetual license for your Network Associates product, you can purchase a PrimeSupport KnowledgeCenter Plan for an annual fee.

To receive your KnowledgeCenter password or to register your PrimeSupport agreement with Network Associates, visit:

http://www.nai.com/asp_set/support/introduction/default.asp

Your completed form will go to the Network Associates Customer Service Center. You must submit this form before you connect to the PrimeSupport KnowledgeCenter site.

With the PrimeSupport KnowledgeCenter Plan, you get:

- Unrestricted, 24-hour-per-day online access to technical solutions from a searchable knowledge base within the Network Associates website
- Electronic incident and query submission
- Technical documents, including user's guides, FAQ lists, and release notes
- Online data file updates and product upgrades

The PrimeSupport Connect Plan

The PrimeSupport Connect Plan gives you telephone access to essential product assistance from experienced technical support staff members. With this plan, you get:

- In North America, unlimited toll-free telephone access to technical support from Monday through Friday, 8:00 AM to 8:00 PM Central Time
- In Europe, the Middle East, and Africa, unlimited telephone access to technical support, at standard long-distance or international rates, Monday through Friday, from 9:00 AM to 6:00 PM local time
- In the Asia-Pacific region, unlimited toll-free, telephone access to technical support, Monday through Friday, from 8:00 AM to 6:00 PM AEST
- In Latin America, unlimited telephone access to technical support, at standard long-distance or international rates, Monday through Friday, from 9:00 AM to 5:00 PM Central Time
- Unrestricted, 24-hour-per-day online access to technical solutions from a searchable knowledge base within the Network Associates website
- Electronic incident and query submission

- Technical documents, including user's guides, FAQ lists, and release notes
- Data file updates and product upgrades via the Network Associates website

The PrimeSupport Priority Plan

The PrimeSupport Priority Plan gives you round-the-clock telephone access to essential product assistance from experienced Network Associates technical support staff members. You can purchase the PrimeSupport Priority Plan on an annual basis when you purchase a Network Associates product, either with a subscription license or a one-year license.

The PrimeSupport Priority Plan has these features:

- In North America, unlimited toll-free telephone access to technical support from Monday through Friday, 8:00 AM to 8:00 PM Central Time
- In Europe, the Middle East, and Africa, unlimited telephone access to technical support, at standard long-distance or international rates, Monday through Friday, from 9:00 AM to 6:00 PM local time
- In the Asia-Pacific region, unlimited toll-free, telephone access to technical support, Monday through Friday, from 8:00 AM to 6:00 PM AEST
- In Latin America, unlimited telephone access to technical support, at standard long-distance or international rates, Monday through Friday, from 9:00 AM to 5:00 PM Central Time
- Priority access to technical support staff members during regular business hours
- Responses within one hour for urgent issues that happen outside regular business hours, including those that happen during weekends and local holidays
- Unrestricted, 24-hour-per-day online access to technical solutions from a searchable knowledge base within the Network Associates website
- Electronic incident and query submission
- Technical documents, including user's guides, FAQ lists, and release notes
- Data file updates and product upgrades via the Network Associates website

The PrimeSupport Enterprise Plan

The PrimeSupport Enterprise Plan gives you round-the-clock, personalized, proactive support from an assigned technical support engineer. You'll enjoy a relationship with a support professional who is familiar with your Network Associates product deployment and support history, and who will call you at an interval you designate to verify that you have the knowledge you need to use and maintain Network Associates products.

By calling in advance, your PrimeSupport Enterprise representative can help to prevent problems before they occur. If, however, an emergency arises, the PrimeSupport Enterprise Plan gives you a committed response time that assures you that help is on the way. You may purchase the PrimeSupport Enterprise Plan on an annual basis when you purchase a Network Associates product, either with a subscription license or a one-year license.

With the PrimeSupport Enterprise Plan, you get:

- Unlimited, toll-free telephone access to an assigned technical support engineer on a 24-hour-per-day, seven-day-per-week basis, including during weekends and local holidays.

NOTE: The availability of toll-free telephone support varies by region and is not available in some parts of Europe, the Middle East, Africa, and Latin America.

- Proactive support contacts from your assigned support engineer via telephone or e-mail, at intervals you designate
- Committed response times from your support engineer, who will respond to pages within half an hour, to voice mail within one hour, and to e-mail within four hours
- Assignable customer contacts, which allow you to designate five people in your organization who your support engineer can contact in your absence
- Optional beta site status, which gives you access to the absolute latest Network Associates products and technology
- Unrestricted, 24-hour-per-day online access to technical solutions from a searchable knowledge base within the Network Associates website
- Electronic incident and query submission

- Technical documents, including user's guides, FAQ lists, and release notes
- Online data file updates and product upgrades

Ordering a Corporate PrimeSupport Plan

To order any PrimeSupport Plan, contact your sales representative, or

- In North America, call Network Associates at (972) 308-9960, Monday through Friday from 8:00 AM to 7:00 PM Central Time. Press 3 on your telephone keypad for sales assistance.
- In Europe, the Middle East, and Africa, contact your local Network Associates office. Contact information appears near the front of this guide.

Table A–1. Corporate PrimeSupport Plans at a Glance

Plan Feature	Knowledge Center Plan	Connect Plan	Priority Plan	Enterprise Plan
Technical support via website	Yes	Yes	Yes	Yes
Software updates	Yes	Yes	Yes	Yes
Technical support via telephone	—	Monday–Friday North America: 8 AM–8 PM CT Europe, Middle East, Africa: 9 AM–6 PM local time Asia-Pacific: 8 AM–6 PM AEST Latin America: 9 AM–5 PM CT	Monday–Friday, after hours emergency access North America: 8 AM–8 PM CT Europe, Middle East, Africa: 9 AM–6 PM local time Asia-Pacific: 8 AM–6 PM AEST Latin America: 9 AM–5 PM CT	Monday–Friday, after hours emergency access North America: 8 AM–8 PM CT Europe, Middle East, Africa: 9 AM–6 PM local time Asia-Pacific: 8 AM–6 PM AEST Latin America: 9 AM–5 PM CT
Priority call handling	—	—	Yes	Yes
After-hours support	—	—	Yes	Yes
Assigned support engineer	—	—	—	Yes
Proactive support	—	—	—	Yes
Designated contacts	—	—	—	At least 5
Response charter	E-mail within one business day	Calls answered in 3 minutes, response in one business day	Within 1 hour for urgent issues after business hours	After hours pager: 30 minutes Voicemail: 1 hour E-mail: 4 hours

The PrimeSupport options described in the rest of this chapter are available only in North America. To find out more about PrimeSupport, Training and Consultancy options available outside North America, contact your regional sales office. International contact information appears in the Preface of this guide.

Table A–2. International Prime Support Information

Country or Region	Phone Number*	Bulletin Board System
Germany	+49 (0)69 21901 300	+49 89 894 28 999
France	+33 (0)1 4993 9002	+33 (0)1 4522 7601
United Kingdom	+44 (0)171 5126099	+44 1344-306890
Italy	+31 (0)55 538 4228	+31 (0)20 586 6128
Netherlands	+31 (0)55 538 4228	+31 (0)20 586 6128
Europe	+31 (0)55 538 4228	+31 (0)20 688 5521
Latin America	+55-11-3794-0125	+55-11-5506-9100

* Long distance charges may apply.

Network Associates Consulting and Training

The Network Associates Total Service Solutions program provides you with expert consulting and comprehensive education that can help you maximize the security and performance of your network investments. The Total Service Solutions program includes the Network Associates Professional Consulting arm and the Educational Services program.

Professional Services

Network Associates Professional Services is ready to assist you during all stages of your network growth, from planning and design, through implementation, and with ongoing management. Network Associates consultants provide an expert's independent perspective that you can use as a supplemental resource to resolve your problems. You'll get help integrating Network Associates products into your environment, along with troubleshooting assistance or help in establishing baselines for network performance. Network Associates consultants also develop and deliver custom solutions to help accomplish your project goals—from lengthy, large-scale implementations to brief problem-solving assignments.

Jumpstart Services

For focused help with specific problem resolution or software implementation issues, Network Associates offers a Jumpstart Service that gives you the tools you need to manage your environment. This service can include these elements:

- **Installation and optimization.** This service brings a Network Associates consultant onsite to install, configure, and optimize your new Network Associates product and give basic operational product knowledge to your team.
- **Selfstart knowledge.** This service brings a Network Associates consultant onsite to help prepare you to perform your new product implementation on your own and, in some cases, to install the product.
- **Proposal Development.** This service helps you to evaluate which processes, procedures, hardware and software you need before you roll out or upgrade Network Associates products, after which a Network Associates consultant prepares a custom proposal for your environment.

Network Consulting

Network Associates consultants provide expertise in protocol analysis and offer a vendor-independent perspective to recommend unbiased solutions for troubleshooting and optimizing your network. Consultants can also bring their broad understanding of network management best practices and industry relationships to speed problem escalation and resolution through vendor support.

You can order a custom consultation to help you plan, design, implement, and manage your network, which can enable you to assess the impact of rolling out new applications, network operating systems, or internetworking devices.

To learn more about the options available:

- Contact your regional sales representative.
- In North America, call Network Associates at (972) 308-9960, Monday through Friday from 8:00 AM to 7:00 PM Central Time.
- Visit the Network Associates website at:
http://www.nai.com/asp_set/services/introduction/default.asp

Educational Services

Network Associates Educational Services builds and enhances the skills of all network professionals through practical, hands-on instruction. The Educational Services technology curriculum focuses on network fault and performance management and teaches problem-solving at all levels. Network Associates also offers modular product training so that you understand the features and functionality of your new software.

You can enroll in Educational Services courses year-round at Network Associates educational centers, or you can learn from customized courses conducted at your location. All courses follow educational steps along a learning path that takes you to the highest levels of expertise. Network Associates is a founding member of the Certified Network Expert (CNX) consortium. To learn more about these programs:

- Contact your regional sales representative.
- Call Network Associates Educational Services at (800) 395-3151 Ext. 2670 (for private course scheduling) or (888) 624-8724 (for public course scheduling).
- Visit the Network Associates website at:
<http://www.nai.com/naicommon/services/education.asp>

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